Electronic Version
Stylesheet Version v1.1.1

Claims

[c1] 1. A combination through-wall masonry flashing / drainage device comprising
a flashing membrane, the flashing membrane having a first side and a second side opposite the first side,
a reinforcing cloth adhered to the flashing membrane first side, and
a wicking cloth adhered to the flashing membrane second side.

[c2] 2. The device of claim 1, wherein the flashing membrane is a sheet of material made of at least one taken from the group consisting of copper, PVC, polyethylene, and stainless steel.

[c3] 3. The device of claim 1, wherein the flashing membrane is made of copper sheet weighing between three and seven ounces per square foot and is between 0.0036 and 0.0094 inches thick.

[c4] 4. The device of claim 1, wherein the reinforcing cloth is fiberglass.

[c5] 5. The device of claim 4, wherein the reinforcing cloth weighs between 0.2 and 0.3 ounces per square foot.

[c6] 6. The device of claim 1, wherein the wicking cloth is made of a synthetic fiber material selected for maximum wicking ability, life expectancy, mildew resistance, and strength characteristics, is about 0.050 inches thick, and weighs between five and seven ounces per square yard.

[c7] 7. The device of claim 1, wherein the wicking cloth material is one taken from the group consisting of polyester, polypropylene, polypropylene nylon, and polyethylene.

[c8] 8. The device of claim 1, wherein the wicking cloth transports liquid by capillary action or fiber tow infiltration.

[c9] 9. The device of claim 8, wherein the wicking cloth also transports liquid by gravity.

[c10] 10. The device of claim 1 further comprising an adhesive disposed between the reinforcing cloth and the flashing membrane, and between the wicking cloth and the flashing membrane.

[c11] 11. A combination through-wall masonry flashing / drainage device comprising
a flashing membrane, the flashing membrane having a first side and a second side opposite the first side,

a first reinforcing cloth adhered to the flashing membrane first side,
a second reinforcing cloth adhered to the flashing membrane second side, and
a wicking cloth adhered to the second reinforcing cloth.

[c12] 12. The device of claim 11, wherein the flashing membrane is a sheet of material made of at least one taken from the group consisting of copper, PVC, polyethylene, and stainless steel.

[c13] 13. The device of claim 11, wherein the flashing membrane is made of copper sheet weighing between three and seven ounces per square foot and is between 0.0036 and 0.0094 inches thick.

[c14] 14. The device of claim 11, wherein the reinforcing cloths are fiberglass.

[c15] 15. The device of claim 14, wherein the reinforcing cloths weigh between 0.2 and 0.3 ounces per square foot.

[c16] 16. The device of claim 11, wherein the wicking cloth is made of a synthetic fiber material selected for maximum wicking ability, life expectancy, mildew resistance, and strength characteristics, is about 0.050 inches thick, and weighs between five and seven ounces per square yard.

[c17] 17. The device of claim 11, wherein the wicking cloth material is one taken from the group consisting of polyester, polypropylene, polypropylene nylon, and polyethylene.

[c18] 18. The device of claim 11, wherein the wicking cloth transports liquid by capillary action or fiber tow infiltration.

[c19] 19. The device of claim 18, wherein the wicking cloth also transports liquid by gravity.

[c20] 20. The device of claim 11 further comprising an adhesive disposed between the reinforcing cloths and the flashing membrane, and between the wicking cloth and the second reinforcing cloth.

[c21] 21. A system for removing water from between an inner wall and an outer wall comprising
an inner wall,
an outer wall, and
a combination through-wall masonry flashing and drainage device, the device comprising a flashing membrane having a first side and a second side opposite the first side, a reinforcing cloth adhered to the flashing membrane first side, and a wicking cloth adhered to the flashing membrane second side; the device having a first

edge and a second edge opposite the first edge, wherein the first edge of the device is secured to the inner wall with the wicking cloth facing up, and the second edge of the device is secured beyond the outer wall, such that water between the inner wall and outer wall is drawn through a mortar joint at the base of the outer wall to the outside of the outer wall by the wicking action of the wicking cloth without the need for vents.

[c22] 22. The system of claim 21, wherein the first edge is secured at a higher elevation on the inner wall than the second edge is secured to the outer wall.

[c23] 23. The system of claim 21, further comprising a horizontal concrete support upon which the inner wall and outer wall are supported, wherein the device second edge is disposed between and beyond the outer wall and concrete support.

[c24] 24. A system for removing water from between an inner wall and an outer wall comprising
an inner wall,
an outer wall, and
a combination through-wall masonry flashing and drainage device, the device comprising a flashing membrane having a first side and a second side opposite the first side, a first reinforcing cloth adhered to the flashing

membrane first side, a second reinforcing cloth adhered to the flashing membrane second side, and a wicking cloth adhered to the second reinforcing cloth; the device having a first edge and a second edge opposite the first edge, wherein the first edge of the device is secured to the inner wall with the wicking cloth facing up, and the second edge of the device is secured beyond the outer wall, such that water between the inner wall and outer wall is drawn through a mortar joint at the base of the outer wall to the outside of the outer wall by the wicking action of the wicking cloth without the need for vents.